

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/521,008
Source: PCR/10
Date Processed by STIC: 1/24/05

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/521,008

DATE: 01/24/2005
TIME: 09:24:37

Input Set : A:\16384US04.SEQ.txt
Output Set: N:\CRF4\01242005\J521008.raw

3 <110> APPLICANT: Van Den Hazel, Bart
 4 Jensen, Anne D.
 5 Nygaard, Frank B.
 6 Andersen, Kim V.
 8 <120> TITLE OF INVENTION: Full-length Interferon Gamma Polypeptide Variants
 10 <130> FILE REFERENCE: 16384US04
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/521,008
 C--> 12 <141> CURRENT FILING DATE: 2005-01-03
 12 <150> PRIOR APPLICATION NUMBER: PCT/DK03/000426
 13 <151> PRIOR FILING DATE: 2003-06-23
 15 <160> NUMBER OF SEQ ID NOS: 13
 17 <170> SOFTWARE: PatentIn version 3.3
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 143
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Homo Sapiens
 25 <220> FEATURE:
 26 <221> NAME/KEY: MISC_FEATURE
 27 <223> OTHER INFORMATION: Wild-type mature human IFN Gamma (without the signal peptide)
 29 <400> SEQUENCE: 1
 31 Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn
 32 1 5 10 15
 35 Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile
 36 20 25 30
 39 Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser Gln
 40 35 40 45
 43 Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp Gln
 44 50 55 60
 47 Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val Lys
 48 65 70 75 80
 51 Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu Lys Leu Thr
 52 85 90 95
 55 Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His Glu
 56 100 105 110
 59 Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly Lys
 60 115 120 125
 63 Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg Arg Ala Ser Gln
 64 130 135 140
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 166
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Homo Sapiens
 73 <220> FEATURE:

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74 <221> NAME/KEY: MISC_FEATURE
 75 <223> OTHER INFORMATION: Wild-type human IFN gamma with its 23 residue leader sequence
 77 <400> SEQUENCE: 2
 79 Met Lys Tyr Thr Ser Tyr Ile Leu Ala Phe Gln Leu Cys Ile Val Leu
 80 1 5 10 15
 83 Gly Ser Leu Gly Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu
 84 20 25 30
 87 Asn Leu Lys Lys Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn
 88 35 40 45
 91 Gly Thr Leu Phe Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp
 92 50 55 60
 95 Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe
 96 65 70 75 80
 99 Lys Asn Phe Lys Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile
 100 85 90 95
 103 Lys Glu Asp Met Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg
 104 100 105 110
 107 Asp Asp Phe Glu Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val
 108 115 120 125
 111 Gln Arg Lys Ala Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser
 112 130 135 140
 115 Pro Ala Ala Lys Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Arg
 116 145 150 155 160
 119 Gly Arg Arg Ala Ser Gln
 120 165
 123 <210> SEQ ID NO: 3
 124 <211> LENGTH: 140
 125 <212> TYPE: PRT
 126 <213> ORGANISM: Artificial Sequence
 128 <220> FEATURE:
 129 <223> OTHER INFORMATION: ACTIMMUNE(r) - a 140 residue form of human IFN gamma
 obtained by
 130 fermentation from genetically engineered E. Coli
 132 <400> SEQUENCE: 3
 134 Met Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe
 135 1 5 10 15
 138 Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly
 139 20 25 30
 142 Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser
 143 35 40 45
 146 Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys Asp Asp
 147 50 55 60
 150 Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val
 151 65 70 75 80
 154 Lys Phe Phe Asn Ser Asn Lys Lys Arg Asp Asp Phe Glu Lys Leu
 155 85 90 95
 158 Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala Ile His
 159 100 105 110
 162 Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys Thr Gly
 163 115 120 125

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166 Lys Arg Lys Arg Ser Gln Met Leu Phe Arg Gly Arg
167 130 135 140
170 <210> SEQ ID NO: 4
171 <211> LENGTH: 498
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: Expression cassette
177 optimised for expression of interferon gamma in CHO cells
179 <400> SEQUENCE: 4
180 atgaagtaca caagctatat cctggcctt cagctgtgca tcgtgctggg ctcctggc 60
182 tgctattgcc aggaccccta cgtgaaggag gccgagaacc tgaagaagta cttaacgcc 120
184 ggccacagcg atgtggccga caatggcaca ctgttctgg gcattcctgaa gaatttggaaag 180
186 gaggagagcg atcggaaagat catgcagtcc cagatcgtgt ccttctattt caagctgttt 240
188 aagaatttca aggacgatca gtccatccag aagtccgtgg agaccatcaa ggaggacatg 300
190 aacgtgaagt ttttcaatag caataagaag aagagagacg atttcgagaa gctgaccaat 360
192 tactccgtga cagacctgaa cgtgcagaga aaggccatcc acgagctgt ccaggtgatg 420
194 gccgagctgt ccccccgc caagaccgc aagagaaaga gaagccagat gctgttcaga 480
196 ggcagacggg ccagccag 498
199 <210> SEQ ID NO: 5
200 <211> LENGTH: 19
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: Antisense downstream
vector
206 Primer ADJ 013
208 <400> SEQUENCE: 5
209 gatggctggc aactagaag 19
212 <210> SEQ ID NO: 6
213 <211> LENGTH: 19
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: sense upstream vector
Primer
219 ADJ014
221 <400> SEQUENCE: 6
222 tgtacggtg gagggttat 19
225 <210> SEQ ID NO: 7
226 <211> LENGTH: 33
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ093
233 <400> SEQUENCE: 7
234 gttcaggtct gtcacgctgt aattggtag ctt 33
237 <210> SEQ ID NO: 8
238 <211> LENGTH: 33
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence

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242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ094
245 <400> SEQUENCE: 8
246 aagctgacca attacaccgt gacagacctg aac 33
249 <210> SEQ ID NO: 9
250 <211> LENGTH: 33
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ091
257 <400> SEQUENCE: 9
258 catgatcttc cgatcggtct cgttcttcca att 33
261 <210> SEQ ID NO: 10
262 <211> LENGTH: 33
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ADJ092
269 <400> SEQUENCE: 10
270 aatttggaaaga acgagaccga tcggaagatc atg 33
273 <210> SEQ ID NO: 11
274 <211> LENGTH: 40
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
281 <400> SEQUENCE: 11
282 ccgtcagatc ctaggctagc ttattgcggt agtttatcac 40
285 <210> SEQ ID NO: 12
286 <211> LENGTH: 32
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
293 <400> SEQUENCE: 12
294 gagctcggta ccaagcttt aagagctgta at 32
297 <210> SEQ ID NO: 13
298 <211> LENGTH: 9
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: upstream sequence for
304 optimizing mRNA translation
306 <400> SEQUENCE: 13
307 gccgccacc 9

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date